

TOPOGRAPHIC SURVEY CONTROL POINT RECORD

STATION LONG NAME	MU12
STATION NUMBER	MU12
4 CHAR ID	MU12
COUNTRY	IRAQ
LOCATION	AL BUSAYYAH
SURVEYING AGENCY	IGRS
DATE (OF DESCRIPTION)	08 JULY 05

CONTENTS	YES	NO	NO OF PAGES
FIELD COORDINATE VALUES	x		1
OFFICE COORDINATE VALUES	x		1
STATION MONUMENT & SITE DETAILS	x		1
STATION DIAGRAM	x		1
ACCESS MAP	x		1
ACCESS DESCRIPTION	x		1
APPROACH PHOTOGRAPHS	x		1
CARDINAL POINT PHOTOGRAPHS	x		2

RECORD OF VISITS

DATE OF VISIT	NAME	UNIT	REMARKS

ADDITIONAL DETAILS/ENCLOSURES

CONTENTS	NO OF PAGES
N/A	

FIELD COORDINATE VALUES

STATION LONG NAME	MU12
4 CHAR ID	MU12
STATION NUMBER	MU12

THIS STATION IS NEW	Yes
IDENTICAL / NEARLY IDENTICAL WITH	N/A

FIELD VALUES FROM THE RECEIVER / HAND HELD GPS – IN WGS84

LATITUDE N	30° 09' 13.2"
LONGITUDE E	046° 06' 59.3"
HT (M)	+129
GRID ZONE DESIGNATOR	38R
UTM / MGRS GRID	38R PU 07519 36340
SURVEYING AGENCY	IGRS

FIELD INPUT BY: SPC CHAMBERS	UNIT: IGRS	DATE: 08 JULY 2005
FIELD CHECKED BY: SGT. O'NEAL	UNIT:IGRS	DATE: 08 JULY 2005

OFFICE COORDINATE VALUES

WGS 84 ADJUSTED VALUES AS AT: 25 Aug 05

LATITUDE N	30° 09' 13.27953''
LONGITUDE E	046° 06' 59.36043''
SPHEROIDAL HT (M)	125.754
EGM96 GEOID MODEL HT (M)	-9.446
ORTHOMETRIC HT (M)	135.200
VERTICAL DATUM	WGS 84
GEOID MODEL USED	EGM 96
RELATIVE TO	CORS STATIONS
RELATIVE POSITION ACCURACY (M)	0.016
RELATIVE HEIGHT ACCURACY (M)	0.029
ADJUSTING AGENCY	OPUS
ADJUSTMENT DATE	25 AUG 2005

LOCAL DATUM VALUES AS AT: 25 Aug 05

SPHEROID	N/A
PROJECTION	N/A
GRID	N/A
VERTICAL DATUM	N/A
LATITUDE N / S	N/A
LONGITUDE E / W	N/A
EASTINGS (M)	N/A
NORTHINGS (M)	N/A
SPHEROIDAL HT (M)	N/A
ORTHOMETRIC HT (M)	N/A
GRID ZONE DESIGNATOR	N/A
TRANSFORMATION AGENCY	N/A
TRANSFORMATION DATE	N/A

GRAVITY VALUE: N/A	TYPE OF STN: N/A	REF: N/A
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AIR PHOTO: N/A	REF: N/A	SCALE: N/A
IMAGERY: N/A	REF: N/A	SCALE: N/A

OFFICE INPUT BY: LCPL COWARD	UNIT: IGRS	DATE: 25 AUG 2005
OFFICE CHECKED BY: LCPL DICKEN	UNIT: IGRS	DATE: 25 AUG 2005

STATION MONUMENT AND SITE DETAILS

STATION LONG NAME: MU12	
STATION NUMBER: MU12	4 CHAR ID: MU12
LOCATION: AL BUSAYYAH	COUNTRY: IRAQ
STATION ADDRESS: N/A	
TEL: N/A	FAX: N/A
LAND OWNER ADDRESS: N/A	
TEL: N/A	FAX: N/A
TYPE OF MARK: HARN	
CONDITION: GOOD	
MARK SETTING: FINE MARK ON RE-BAR	NO OF REBARS: 1

MONUMENT PHOTO / SKETCH



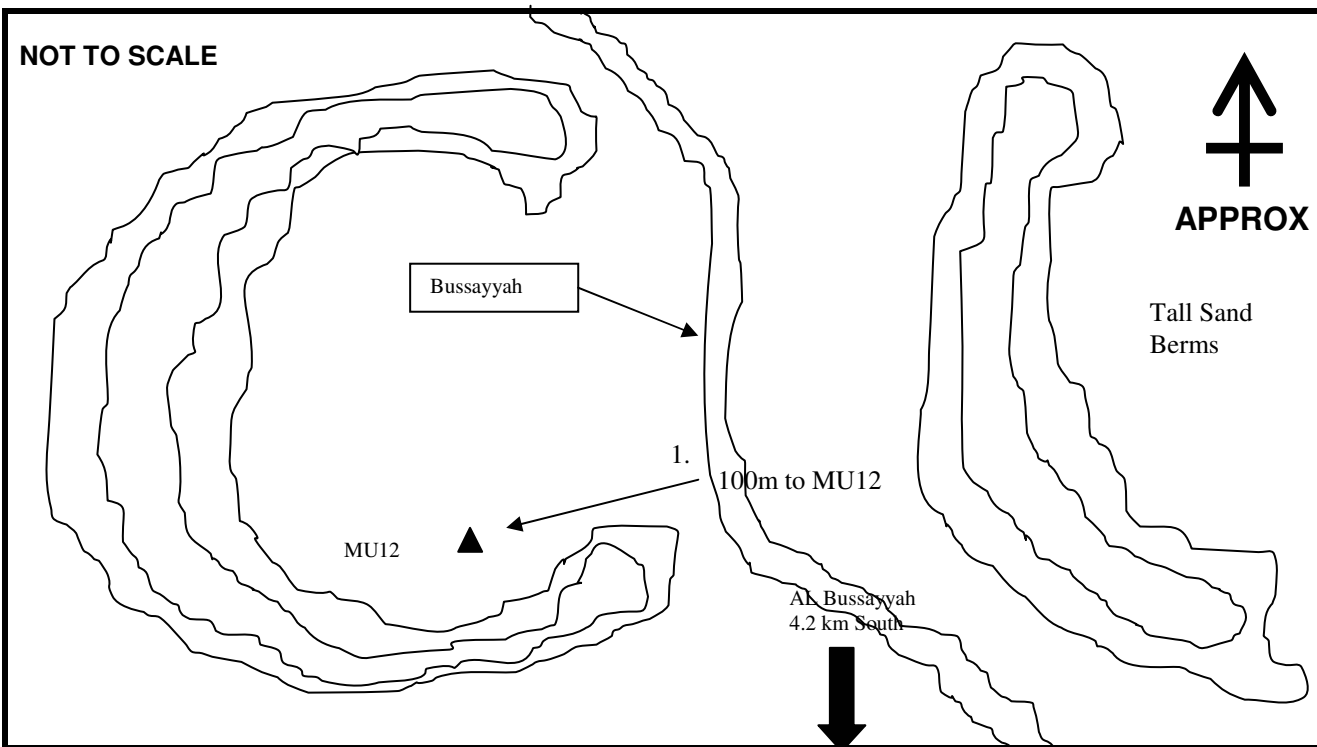
PREPARED BY: SPC CHAMBERS	UNIT: IGRS	DATE: 08 JULY 2005
CHECKED BY: SGT. O'NEAL	UNIT: IGRS	DATE: 08 JULY 2005

STATION DIAGRAM

STATION LONG NAME: MU12

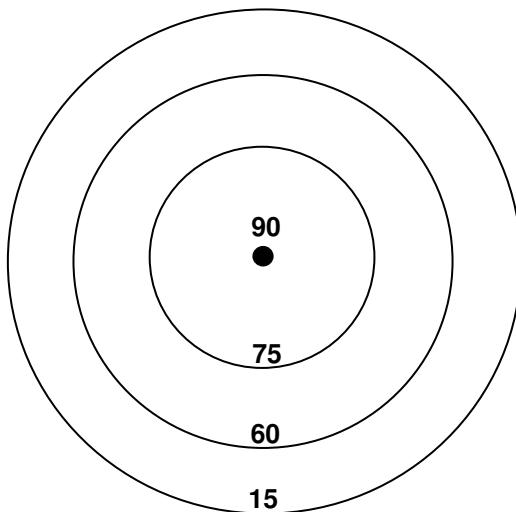
STATION NUMBER: MU12

4 CHAR ID: MU12



NO	DESCRIPTION	BRG/HORZ ANGLE	DISTANCE
1	FROM BUSSAYYAH RD. TO MU12	265°	100m
2			
3			
4			

OBSCURITY DETAILS



PREPARED BY: SPC CHAMBERS	UNIT: IGRS	DATE: 08 JULY 2005
CHECKED BY: SGT. O'NEAL	UNIT: IGRS	DATE: 08 JULY 2005

ACCESS MAP

STATION LONG NAME: MU12

STATION NUMBER: MU12

4 CHAR ID: MU12

MAP DETAILS

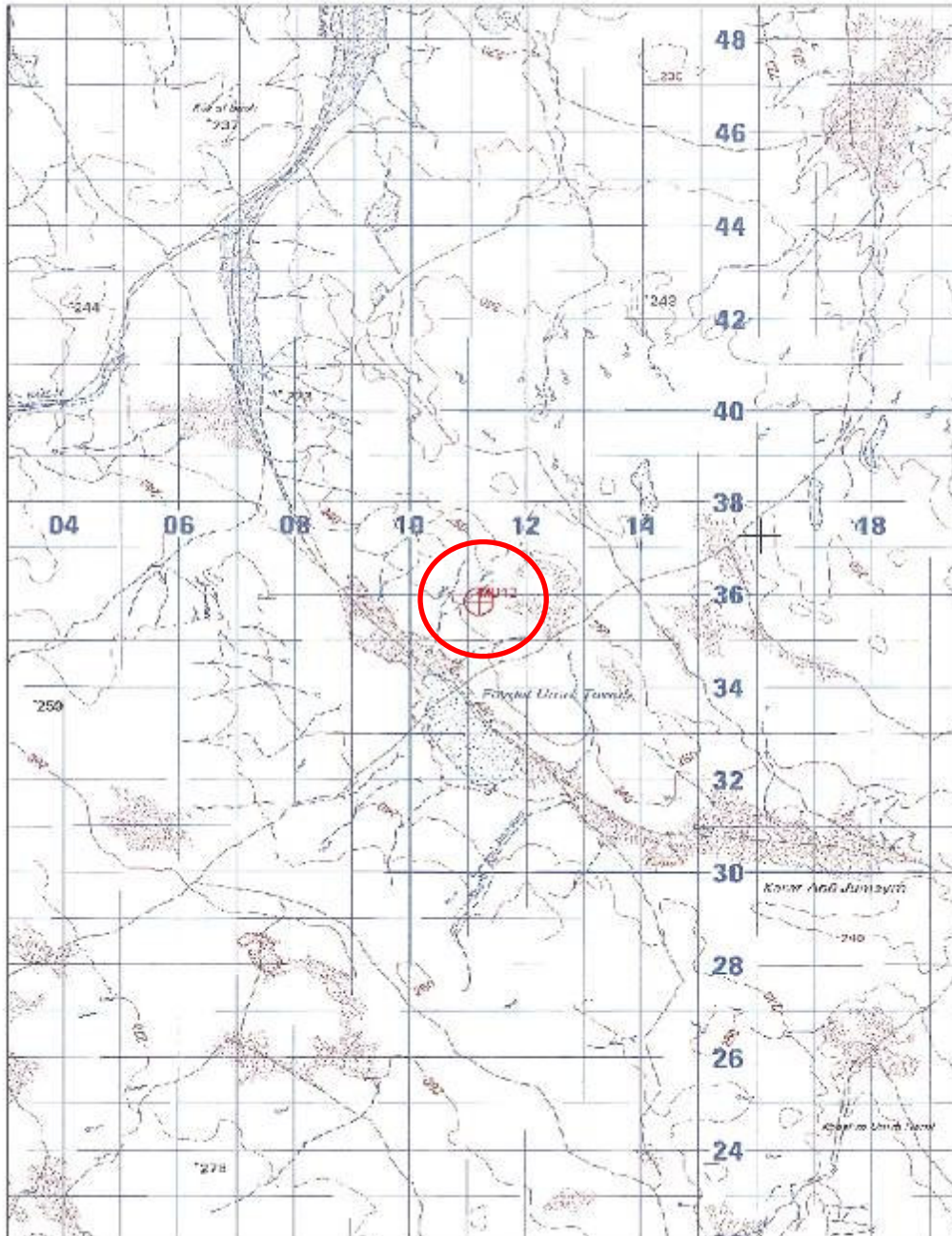
SERIES: K643

SHEET: 5050

EDITION: 1-NIMA

SCALE: 1:100,000

GR: 38R PU 07519 36340



PREPARED BY: SPC CHAMBERS

UNIT: IGRS

DATE: 08 JULY 2005

CHECKED BY: SGT. O'NEAL

UNIT: IGRS

DATE: 08 JULY 2005

ACCESS DESCRIPTION

STATION LONG NAME: MU12	
STATION NUMBER: MU12	4 CHAR ID: MU12

MAP DETAILS	SERIES: K643	SHEET: 5050
EDITION: 1-NIMA	SCALE: 1:100,000	GR: 38R PU 07519 36340

To reach survey marker MU09 proceed from grid location: 38R NV 270 580 travel northwest on access trail to junction with Route 8 at grid location 38R NV 3045 6004, then travel West (TURN LEFT) onto Route 8.

Travel west for approximately 5km to Junction with Chamcham Rd. at grid: 38R 2779 6149. Then travel west on Chamcham Rd and continue south for 122km to grid 38R MU 594 815, the JCT. of Chamcham Rd. and Salman Rd. From that junction travel East approximately 172km, to the junction with Bussayyah Rd in the city of AL Bussayyah, at grid location: 38R PU 068 318. From that junction travel North 4.5km through the city and to survey site MU12, (which will be located on the left-hand side of the road, near a large sand berm) at grid location: 38R PU 0751 3634. (Note: the station will be located approximately 100m off the main trail.)

PREPARED BY: SPC CHAMBERS	UNIT: IGRS	DATE: 08 JULY 2005
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APPROACH PHOTOGRAPHS

STATION LONG NAME: MU12	
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NEAR APPROACH FACING SOUTH



FAR APPROACH FACING SOUTH



TAKEN BY: SPC. CHAMBERS	DATE TAKEN: 08 JULY 2005
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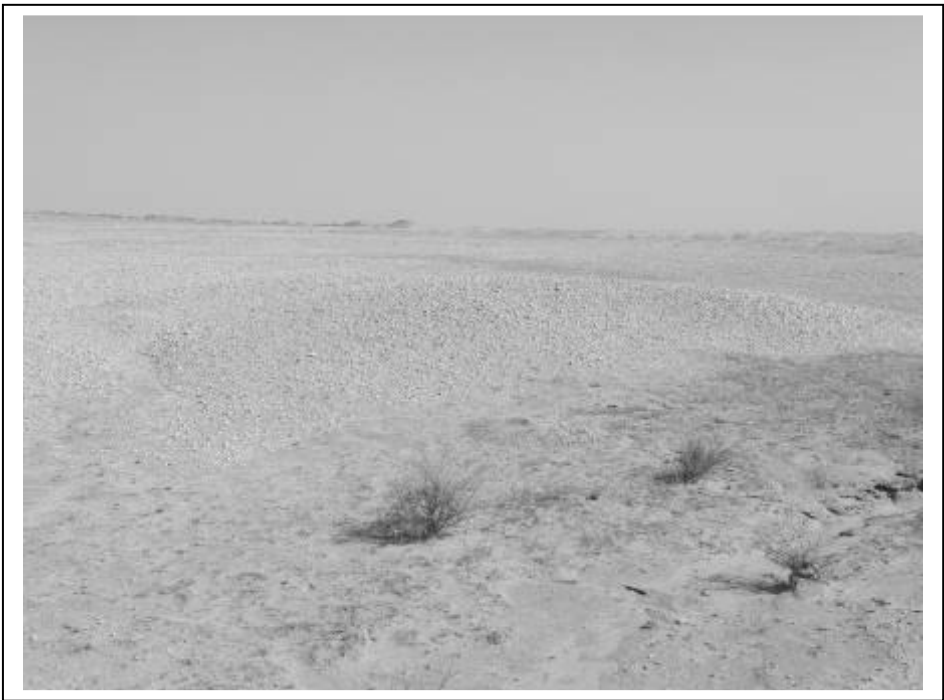
CARDINAL PHOTOGRAPHS

STATION LONG NAME: MU12	
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NORTH



SOUTH



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CARDINAL PHOTOGRAPHS

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EAST



WEST



TAKEN BY: SPC. CHAMBERS	DATE TAKEN: 08 JULY 2005
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